Europäisches Patentamt

European Patent Office

Office européen des brevets



(11) EP 0 892 051 A3

(12)

EUROPEAN PATENT APPLICATION

- (88) Date of publication A3: 05.01.2000 Bulletin 2000/01
- (43) Date of publication A2: 20.01.1999 Bulletin 1999/03
- (21) Application number: 98304192.2
- (22) Date of filing: 27.05.1998

(51) Int Ct.7: **C12N 15/12**, C12N 5/10, C07K 14/705, C07K 16/28, A61K 48/00, A61K 38/17, C12Q 1/68

(84) Designated Contracting States:

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE
Designated Extension States:

AL LT LV MK RO SI

- (30) Priority: 18.06.1997 US 60124 P 23.10.1997 US 955713
- (71) Applicant: SMITHKLINE BEECHAM
 CORPORATION
 Philadelphia Pennsylvania 19103 (US)
- (72) Inventors:
 - Mooney, Jeffrey L.
 King of Prussla, Pennsylvania 19406 (US)

- Bergsma, Derk J.
 King of Prussia, Pennsylvania 19406 (US)
- Halsey, Wendy S.
 King of Prussla, Pennsylvania 19406 (US)
- Sathe, Ganesh M.
 King of Prussla, Pennsylvania 19406 (US)
- (74) Representative: Connell, Anthony Christopher et al SmithKline Beecham pic Corporate Intellectual Property, Two New Horizons Court Brentford, Middlesex TW8 9EP (GB)

(54) CDNA Clone heoad54 that encodes a human 7 transmembrane receptor

(57) HEOAD54 polypeptides and polynucleotides and methods for producing such polypeptides by recombinant techniques are disclosed. Also disclosed are methods for utilizing HEOAD54 polypeptides and polynucleotides in the design of protocols for the treatment of infections such as bacterial, fungal, protozoan and viral infections, particularly infections caused by HIV-1 or HIV-2; pain; cancers; anorexia; bulimia; asthma; Parkin-

son's disease; acute heart failure; hypotension; hypertension; urinary retention; osteoporosis; angina pectoris; myocardial infarction; ulcers; asthma; allergies; benign prostatic hypertrophy; and psychotic and neurological disorders, including anxiety, schizophrenia, manic depression, delirium, dementia, severe mental retardation and dyskinesias, such as Huntington's disease or Gilles dela Tourett's syndrome, among others, and diagnostic assays for such conditions.



European Potent

PARTIAL EUROPEAN SEARCH REPORT

which under Rule 45 of the European Patent ConventionEP 98 30 4192 shall be considered, for the purposes of subsequent proceedings, as the European search report

		DERED TO BE RELEVANT	·	
Category	or resovant p		Refevent to claim	CLASSIFICATION OF THE APPLICATION (DLCLG)
A	TIBS TRENDS IN BI	es on G-protein-coupled CHEMICAL SCIENCES, June 1997 (1997-06-01)		C12N15/12 C12N5/10 C07K14/705 C07K16/28 A61K48/00 A61K38/17
	OLIVEIRA L. ET AL:	993-12-01), pages 53		C12Q1/68
		-/	ĺ	
				TECHNICAL FIELDS SZAFCHED (MLCLE)
				C12N C07K A61K C120
he Search of comply o corridd o	PLETE SEARCH Division considers that the precess with the EPC to cach an extent the aut, or can only be carried out parts when completely:	ස් කුතුසියවත, or one or more of its ප්ථාන, ඡනෝ t a macring3ක් සංගත් රේක රේක රේක of the orl co එy, for ගිසාස රේඨාන,	do runot	
EÇUNO COSSI	ched incompletaly:			
≃mo note	caerohad :			
	ho Direction of the cocurer heet C			
	HE HAGUE	Dissipation of the season 2 November 1999	Hacc	Econosco hia, G
c partad docume docume tachnol	EGORY OF CITED DOCUMENTS larly relevent if telem clons citly relevent if combined with crock and of the came collegory openal background filtern debuckers	T: throatly or principlo u E: cartier pearls docum char the Ching date D: document abod in t L: document abod for a	materiality of the break that publiches the completion when received the completion of the	cr:Sen ration, er
	dista document	& : mamber of the com	a section from a	



IMCOMPLETE SEARCH SHEET C

Application Number
EP 98 30 4192

Although claims 13 and 14 are directed to a method of treatment of the human/animal body (Article 52(4) EPC), the search has been carried out and based on the alleged effects of the compound/composition.

Claim(s) searched completely: 1-16, 18, 20

Claim(s) searched incompletely: 17, 19

Reason for the limitation of the search:

Present claims 17 and 19 relate to an extremely large number of possible compounds. Support within the meaning of Article 84 EPC and/or disclosure within the meaning of Article 83 EPC is to be found, however, for only a very small proportion of the compounds claimed. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Consequently, the search has been carried out for those parts of the claims which appear to be supported and disclosed, namely those parts relating to peptides derived from the disclosed polypeptide, specific antibodies and antisense molecules.



European Patent
Office

PARTIAL EUROPEAN SEARCH REPORT

Application Number

EP 98 30 4192

- 1	DOCUMENTS CONSIDERED TO BE RELEVANT	CLASSIFICATION OF THE APPLICATION (MLCLS)	
ategory	Cliation of document with indication, where appropriate, of resevent passages	Ricksvant to claim	·
A	LEE N.H. AND KERLAVAGE A.R.: "Molecular biology of G-protein-coupled receptors" DRUG NEHS AND PERSPECTIVES, vol. 6, no. 7,		
	1 September 1993 (1993-09-01), pages 488-497, XP000677175 ISSN: 0214-0934		
	HESS J.: "G-protein-coupled receptors: molecular mechanisms involved in receptor activation and selectivity of G-protein recognition" THE FASEB JOURNAL,		
	vol. 11, no. 5, April 1997 (1997-04), pages 346-354, XP002121229		TECHNICAL FIELDS SEARCHED (DA.CLS)